

Why Is Access To High Speed Broadband Important?

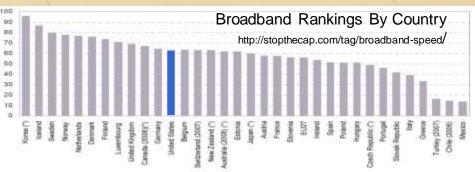
 Chairman Genachowski: "We believe that broadband is a critical infrastructure challenge of our generation. It is to us what railroads, electricity, highways, and telephones were to previous generations."



http://www.informationweek.com/news/government/policy/221901182

Challenges

- About 10% of the nation's population doesn't even have access to broadband
- Low broadband adoption rates of 55 to 70% in rural, low income, minorities, and elderly communities



So Why Do We Need To Map Broadband Access?

 Video: "The Monkey Business Illusion" by Daniel Simons (found on YouTube).

So Why Do We Need To Map Broadband Access?

- We focus on the newest and fastest (think 4G) often to the point of missing the gorilla.
- Where broadband is, and therefore, where it isn't are very important questions that service availability maps can help answer.

IC 5-28-33-3

Development of high speed Internet service deployment and adoption initiative; map of broadband availability

• Sec. 3. (a) The corporation shall develop a high speed Internet service deployment and adoption initiative that includes the creation of a statewide geographic information system (GIS) of available telecommunications and information technology services, including high speed Internet service.

National Telecommunications and Information Administration (NTIA), U.S. Department of Commerce

Notice of Funding Availability for: State Broadband Data and Development Grant Program to fund "projects that collect comprehensive and accurate state-level broadband mapping data, develop state-level broadband maps, and aid in the development and maintenance of a national broadband map." (July 1, 2009)

NTIA's Requirements

- By census blocks, show:
 - -Service provider name
 - -Technology used
 - -Advertised speed (up and downstream)
- Create GIS files to depict availability of wireless broadband
- Deliver data twice each year

- NTIA received grant applications from all 50 states, 5 territories, and the District of Columbia.
- On October 5th, 2009, the NTIA announced that Indiana was one of the first four states to be awarded a grant to create mapping data depicting the availability of broadband services in each state.

Supported Statewide GIS Activities

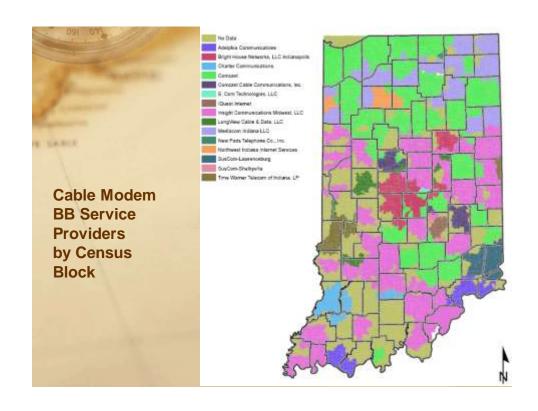
- Data Presentation and Distribution
- Data Collection and Integration
- GIS Coordination
- Road Centerline Data Improvement
- Orthophotography Program

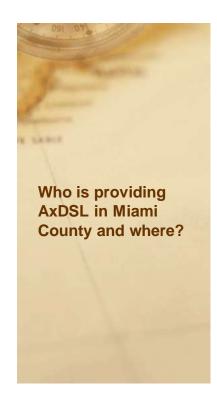
\$3.3 Million

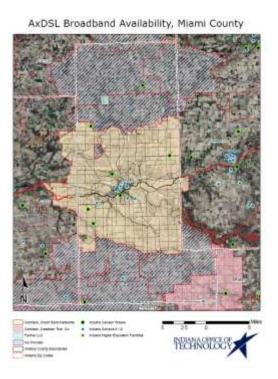


Indiana's Approach

- 1. Use "in-hand" data to quickly create "1st draft" maps.
- 2. Improve the map with data requested from Service Providers
 - By census block (< 2 mi²)
 - By road segment (> 2 mi²)
- 3. Verify results







Indiana's Approach

Improve the map with data requested from Service Providers

- We have contacted 116 potential service providers to request their service data
- Information challenge: How do you ask for something from an organization that you do not know exits?
- The provision of data by service providers for this project is voluntary.

Indiana's Approach

Verify results

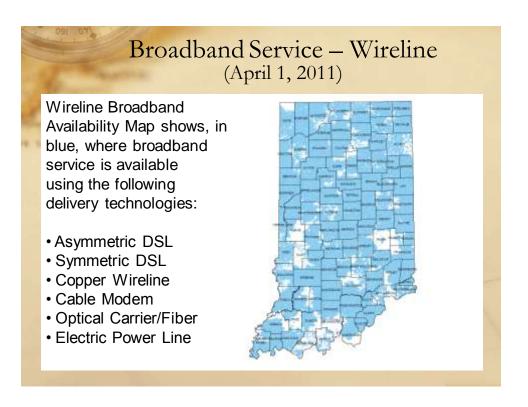
- Data comparison
- Independent 3rd party data
- Orthophotography
- Crowd sourcing

http://www.in.gov/iot Indiana Broadband Consumer

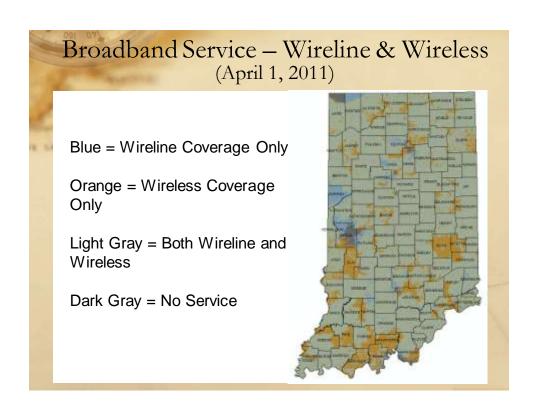












Maps can be found at: • www.in.gov/iot (Ge

- www.in.gov/iot (Geographic Information Office, Indiana Broadband Consumer)
- Soon: www.indianamap.org

